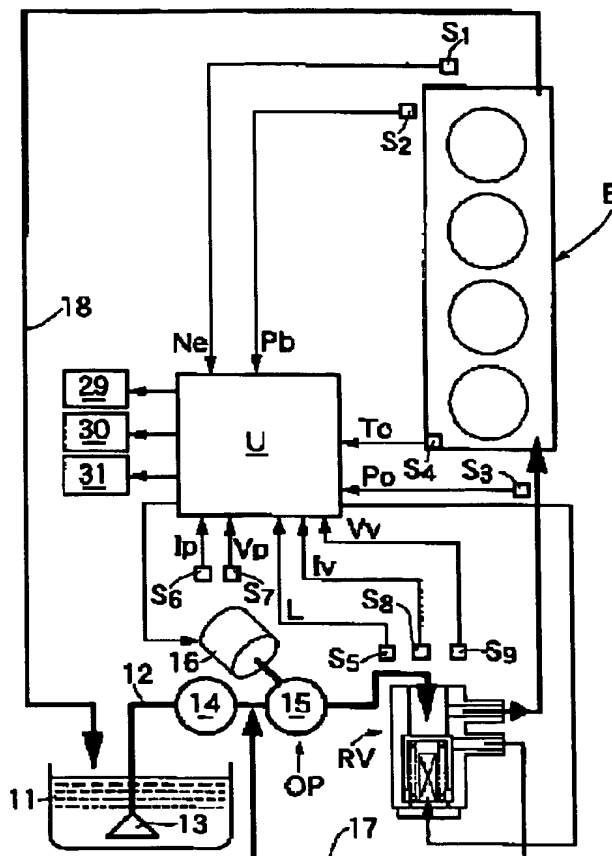


## Patent Abstracts of Japan

**TITLE : FAILURE DIAGNOSTIC SYSTEM FOR  
ELECTRIC OIL PUMP**



**SOLUTION:** Lubricant within an oil pan 11 is supplied to a lubricated portion of an engine E through an electric relief valve RV and an electric oil pump OP controlled by an electronic control unit U. Current  $I_p$  and voltage  $V_p$  of the electric oil pump OP are detected by a current detection means S6 and a voltage detection means S7, respectively. When average power  $W_p$  obtained by integrating instantaneous power  $w_p$  obtained by multiplying the current  $I_p$  and the voltage  $V_p$  for a certain period of time is outside a predetermined range, it is judged that a fault such as short-circuit or disconnection has occurred with the electric oil pump OP, and transition to a fail-safe mode is made to prevent damages to the engine E.

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